

Veterinary Technology Standards/Element Mastery Checkoff	AFNR Standard	Target Date for Element	Date Element Was Taught	1	2	3	4	5
AG-VT-1: Students will gain an understanding of the types of hazards common in the veterinary hospital and the organization that regulates safety standards in the workplace.		4th						
a. Read an MSDS and locate important safety information								
AG-VT-2: Students will learn how to protect themselves from potential hazards in the workplace. They will be able to describe the correct methods of protection given scenarios describing hazardous situations. They will also research zoonotic diseases using the internet.		4th						
a. Determine the appropriate safety precautions for a given scenario								
b. Explain what OSHA is and know its purpose								
AG-VT-3: Students will investigate the differences between sanitation, disinfection, and sterilization, and be able to relate which cleaning method should be used in any given situation.		4th						
a. Describe the different methods of sanitation and know when to use them.								
b. Give examples of the four types of safety hazards.								
AG-VT-4: Students will learn many common Greek and Latin prefixes, suffixes, and roots that compose the language of veterinary medicine and learn how to dissect veterinary terms to discover their meanings.		1st						
a. Analyze veterinary terms to define their meanings.								
b. Recognize common Greek and Latin prefixes, suffixes, and roots.								

c. List abbreviations commonly used in veterinary medicine.								
AG-VT-5: Students will investigate the body systems and gain a working knowledge of how each system functions, its purpose, and how it is affected by disease.		1st						
a. Recognize and implement common anatomical terminology.								
b. Apply knowledge of veterinary anatomy through video dissection of animal specimens.								
c. Point out common intramuscular injection sites.								
d. Demonstrate common sites for measuring pulses and collecting blood samples.								
e. Describe the functions of the skeletal, muscular, circulatory, respiratory, and nervous systems.								
AG-VT-6: Students will develop a vocabulary of directional anatomical terms and will be able to identify anatomical structures of animals. Students will apply their knowledge by dissection and assembling anatomical models.		1st						
a. Identify 20 major bones of the skeleton and relate them to a live animal.								
b. Identify ten muscles and relate them to a live animal.								
c. Identify structures of the heart, as well as major veins and arteries.								
d. Identify parts of the upper and lower respiratory tract.								
e. Identify parts of nerve cells and the brain.								
f. Describe how the body seeks to maintain a state of homeostasis.								
AG-VT-7: Students will gain practical knowledge of the methods used to assess an animal's health. They will gain experience using the stethoscope to determine normal and abnormal signs of health. Students will participate in a group lab formulating and executing a procedure using the regional approach to assess an animal's health.		2nd						
a. List temperature, pulse, and respiration rates for feline, canine, equine, and bovine.								
b. Evaluate an animal's general health by completing a physical exam on the animal.								

<p>AG-VT-8: Students will gain an understanding of the various regions of an animal's body and the signs of illness that may be present in those areas. They will understand that certain signs and symptoms may indicate a variety of diseases and/or other health problems. A role-playing activity will enable students to practice communication skills and learn to properly chart the medical history of an animal.</p>		2nd					
<p>a. Correctly operate the stethoscope.</p>							
<p>b. Communicate with others to obtain a history of an animal as part of a routine physical exam.</p>							
<p>AG-VT-9: Students will understand that temperature, pulse, and respiration (TPR) is a useful baseline for predicting overall animal health. They will understand that TPR varies for every species of animal and may vary not only due to illness or disease, but also due to age, stress, and other environmental factors. Students will participate in a group lab following standard veterinary procedures to assess TPR.</p>		3rd					
<p>a. Describe the characteristics of a healthy animal and the signs and methods used to assess an unhealthy animal.</p>							
<p>b. Provide examples of abnormalities in general animal health and relate them to the problems and illnesses they may indicate.</p>							
<p>c. Explain why a routine should be devised for all physical exams.</p>							
<p>AG-VT-10: Students will gain an understanding of the spay/neuter process and its benefits to pets and pet owners. They will research and discuss the arguments for and against spaying/neutering, and form a conclusion about the topic.</p>		3rd					
<p>a. Discuss the arguments for and against spaying and neutering.</p>							
<p>AG-VT-11: Students will gain experience in performing several common hospital procedures and be able to demonstrate the procedures to others. They will complete vaccinations schedules, bandage, and brush teeth.</p>		3rd					
<p>a. Calculate medication amounts.</p>							
<p>b. Apply different types of bandages to various areas of the body.</p>							

<p>AG-VT-12: Students will understand the common methods of administering medications. They will complete activities to calculate medication amounts, dispense and label medications, and correctly fill and read a syringe.</p>		3rd					
<p>a. Fill and read a syringe</p>							
<p>b. Calculate dosage</p>							
<p>c. Properly label prescriptions</p>							
<p>AG-VT-13: Students will gain knowledge and practical skills in the area of animal behavior by observing animals as they interact with other animals, humans and their environment.</p>		4th					
<p>a. Discuss the most common types of behaviors displayed by various animal breeds.</p>							
<p>b. Explain the concept of animal husbandry and what it entails.</p>							
<p>AG-VT-14: Students will investigate common internal and external parasites of cats and dogs and be able to identify and name them using both common or scientific names. They will understand that the mode of transmission, life cycle, and effect on the host are all factors used to determine the best course of treatment.</p>		1st					
<p>a. Describe the general clinical signs of an animal with a parasite infestation.</p>							
<p>b. Diagram the life cycles of internal and external parasites.</p>							
<p>AG-VT-15: Students will gain experience operating a microscope to search for parasite eggs and gain the ability to identify parasites as well as other debris found in a fecal specimen.</p>		1st					
<p>a. Discuss heartworms in depth.</p>							
<p>b. Identify adult parasites and parasite eggs using a microscope.</p>							
<p>AG-VT-16: Students will be able to name the different types of records, explain their purpose and describe the types of information contained in each record. They will gain experience filling out various types of medical records and scheduling office appointments.</p>		1st					
<p>a. Complete an animal identification record.</p>							

b. Schedule appointments.								
c. Answer phones properly.								
d. Outline the five steps of the grieving process.								
AG-VT-17: Students will explain the importance of good phone skills and effective communication when dealing with clients. They will engage in role-play that mimics situations that occur in a veterinary office including: difficult clients, euthanasia, and co-worker conflicts.		4th						
a. Explain the difference between verbal and non-verbal communication.								
b. Describe how inventory works and why it is important to maintain an efficient inventory control program.								
c. Identify office calls that may be emergencies.								
AG-VT-18: Students will practice basic math skills including: addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. They will work with percents and averages, as well as liquid and linear measurement. Students will be able to convert English and metric units.		all 4						
a. Correctly complete basic addition, subtraction, multiplication, and division problems using whole numbers, fractions, and decimals.								
b. Evaluate a given word problem to identify the important information that will be used in solving the problem.								
c. Correctly operate a calculator.								
AG-VT-19: Students will solve word problems illustrating real-life situations using ratios and dimensional analysis. Students will apply their knowledge of basic math to each problem.		3rd						
a. Correctly complete advanced ratios dealing with dosage, dilution, and weight conversions.								
b. Correctly complete word problems dealing with percent, temperature conversion, and liquid and linear measurement.								
c. Explain why solid math skills are vital to the success of any veterinary hospital.								

<p>AG-VT-20: Students will gain an understanding of the importance of animal nutrition in maintaining a healthy animal. They will understand the functions of nutrients in an animal's diet, the types of digestive systems commonly found in animals, and the process of digestion. Students will participate in a food nutrients lab to identify what nutrients can be found in various animal feeds, and conduct a palatability study to gain an understanding of feed selection.</p>		2nd					
<p>a. Evaluate various food labels to determine the nutrient components and their quality.</p>							
<p>b. Evaluate various food labels and advertisements to determine marketing strategies.</p>							
<p>AG-VT-21: Students will understand the role of nutrition by assessing animal, dietary, and feeding factors. They will be able to calculate maintenance energy requirements for cats and dogs, and a dry matter analysis for a given feed. In addition, students will understand the importance of a guaranteed analysis and recognize its components on a pet food label.</p>		2nd					
<p>a. Be able to define nutrition and explain its importance in maintaining animal health.</p>							
<p>b. Know and explain the six basic nutrients and their function in maintaining healthy animals.</p>							
<p>AG-VT-22: Students will be able to identify and describe the various components of an animal feed label and be able to make an educated decision on which food to purchase for any animal. They will also understand the role of marketing in the pet food industry and conduct cost comparisons of various feeds.</p>		2nd					
<p>a. Define the terms digestion, absorption, and metabolism and describe the processes.</p>							
<p>b. Be able to discuss the differences between ruminant and nonruminant digestive systems.</p>							
<p>c. Understand and calculate an animal's energy requirements based on its use and stage of life.</p>							
<p>d. Understand the importance of guaranteed analysis in selecting animal feed.</p>							

<p>AG-VT-23: Students will explain the signs of disease in an animal as compared to a healthy animal and discuss factors that influence the health of an animal as well as factors that cause disease.</p>		2nd						
<p>a. List the factors that influence health and wellness.</p>								
<p>b. Discuss the factors that may cause disease.</p>								
<p>c. Describe the process of immunity.</p>								
<p>d. List ways in which diseases are transmitted.</p>								
<p>AG-VT-24: Students will understand the path a disease takes and how it affects various body systems. They will also discuss the types of treatments available and how and when those treatments may be used.</p>		2nd						
<p>a. Describe the signs of disease.</p>								
<p>b. Explain how different diseases work and affect the body and the methods used to treat those diseases.</p>								
<p>AG-VT-25: Students will form an educated opinion of their stance on animal rights/welfare. Students will participate in class discussions over the animal rights vs. welfare issue.</p>		4th						
<p>a. Discuss the issue of animal rights vs. welfare.</p>								
<p>AG-VT-26: Students will understand the importance of animals in their lives and the many roles that animals play in society.</p>		1st						
<p>a. Explain the human/animal bond.</p>								
<p>b. List the ways in which animals are a part of their lives.</p>								
<p>AG-VT-27: Students will understand the process of choosing a career path by analyzing their interests and abilities and choosing three careers that appeal to them.</p>		4th						
<p>a. Understand the variety of career fields in the veterinary industry.</p>								
<p>b. Understand the steps necessary to choose a career.</p>								
<p>AG-VT-28: Students will understand the job requirements and benefits of different veterinary careers. Students will research several careers compiling information on each career and then analyzing which career best suits them.</p>		4th						
<p>a. Identify and understand job requirements as well as benefits of jobs in the veterinary industry.</p>								

AG-VT-29: Students will identify the most common breeds for several species of animals, be able to explain the purpose for which the breed was developed, and discuss specific temperament/behavior characteristics of the breed.								
a. Identify common breeds of animals on sight.		all 4						
Knot Tying		1st-3rd						
a. Bowline								
b. Slip								
c. Square								
d. Bowline/Halter								
Sutures		3rd						
a. Continuous								
b. Interrupted								
c. Purse-string								